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		Application Number	10/809,317	
TRANSMITTAL FORM		Filing Date	03/24/2004	
		First Named Inventor	G. Ramanath	
		Art Unit	2813	
(to be used for all correspondence after initial filing)		Examiner Name	Rodgers, Colleen	
otal Number of Pages in This Submission	30	Attorney Docket Number	5002.02-1	

Total Number of Pa	ages in This Submission		30	Attorney Docket N	Number	5002.02-1
ENCLOSURES (Check all that apply)						
Extension of T Express Aband Information Dis Certified Copy Document(s) Response to I Incomplete Al	tached Reply Final vits/declaration(s) Fime Request donment Request sclosure Statement y of Priority Missing Parts/	Rema	Drawing(street) Licensing Petition Petition to Provision Power of Change of Terminal Request CD, Num		dress	After Allowance Communication to TC Appeal Communication to Board of Appeals and Interferences Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) Proprietary Information Status Letter Other Enclosure(s) (please identify below): Publications (2); Postcard
:	SIGNATUR	E OF A	PPLICA	NT, ATTORNEY, O	R AGENT	
Firm Name	PETERS, VERNY, JO					
Signature	Da		16	4		
Printed name	David J. Aston	7			,	
Date	March 9, 2006				Reg. No.	28,051
CERTIFICATE OF TRANSMISSION/MAILING						
I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the						
Signature	Will	1	ren	n		
Typed or printed name Will Dresser					Date	March 9, 2006

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Attorney Docket No. 5002.02-1 Customer No. 23308

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor

G. Ramanath, et al.

| Art Unit. : 2813

Serial

10/809,317

Examiner: R

RODGERS, Colleen E.

Number

Filed

03/24/2004

Title

: DIFFUSION

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Confirmation

Customer

Number

: 6500

Number

: 23308

CERTIFICATE OF MAILING or FACSIMILE TRANSMISSION UNDER 37 C.F.R. § 1.8(a)(1) I hereby certify that this correspondence (along with any referred to as being attached or enclosed) is, on the date shown below, being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria Virginia, 22313-1450, or facsimile transmitted to the U.S. Patent and Trademark Office on the date shown below.

Dated:March 9, 2006	By: Will	Denen
	Printed Name:	Will Dresser

AMENDMENT AND RESPONSE TO OFFICE ACTION MAILED 12/13/2005

Mail Stop Amendment Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

In response to the Office Action of 12/13/2005, having a shortened statutory period for response due 3/13/2006, please amend the above-identified application as set forth below, in accordance with revised amendment practice, 37 CFR §1.121, effective July 30, 2003. A complete listing of all claims, replacing all prior claims in the application, and

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including the text of all non-cancelled claims, is attached.

This Amendment and Response is accompanied by a Transmittal Form, a post card, and the following exhibits: Yin et al., "Nanostructured iron-nickel thin films synthesized by electroless polyol deposition," Mater. Phys. Mech. 4:55-61 (2001); and

Kizil et al., "TiN, TaN, and W_xN as diffusion barriers for Cu on SiO_2 : Capacitance-voltage, leakage current and triangular-voltage sweep tests after bias temperature stress," Thin Solid Films, 449:158-165 (2004).

In the event that a fee is required in connection with the filing of this Amendment and Response, the Commissioner of Patents is authorized to charge the amount of such fee to Peters, Verny, Jones, Schmitt & Aston Deposit Account No. 16-1331.

Amendments to the Specification begin on page 3 of this paper.

Amendments to the Claims are reflected in the listing of claims, which begins on page 4 of this paper.

Remarks/Arguments begin on page 8 of this paper.